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4. (Amended) A method as claimed in claim 1, [or claim 2] wherein said defect is an unexplained infertility.

5. (Amended) A method as claimed in claim 1, [or claim 2] wherein said condition is a luteal phase defect.

6. (Amended) A method as claimed in claim 1, [or claim 2] wherein said defect is hypogonadotropic hypogonadism.

7. (Amended) A method as claimed in claim 1, [or claim 2] wherein said condition is asthenozoospermia.

8. (Amended) A method as claimed in claim 1, [or claim 2] wherein said condition is oligozoospermia.

9. (Amended) A method as claimed in claim 1, [or claim 2] wherein said condition is delayed onset of puberty.

10. (Amended) A method as claimed in claim 1, [or claim 2] wherein said condition is cryptorchidism.

11. (Amended) A method as claimed in claim 1, [or claim 2] wherein said acetyl cholinesterase inhibitor is selected from the group consisting of donepezil, rivastigmine, galantamine, lycoramine and the analogs of galantamine and lycoramine.

12. (Amended) A method as claimed in claim 1, [or claim 2] wherein said acetylcholinesterase inhibitor is selected from the group consisting of galanthamine, lycoramine and analogs of said compounds wherein at least one of the methoxy, hydroxy or methyl groups of the galanthamine or lycoramine is replaced as follows:

the methoxy group by another alkoxy group of from one to six carbon atoms, a hydroxy group, hydrogen, an alkanoyloxy group, a benzoyloxy or substituted benzoyloxy group, a carbonate group or a carbamate group;

the hydroxy group by an alkoxy group of from one to six carbon atoms, hydrogen, an alkanoyloxy group, a benzoyloxy or substituted benzoyloxy group, a carbonate group or a carbamate group;

the N-methyl group by hydrogen, alkyl, benzyl, cyclopropylmethyl or a substituted or unsubstituted benzoyloxy group.

13. (Amended) A method of treatment as claimed in claim 1, [or claim 2] wherein said acetylcholinesterase inhibitor is selected from the group consisting of galanthamine, lycoramine and analogs thereof wherein the methoxy group of such compounds is replaced by a hydrogen, hydroxy or alkoxy group of from two to six carbon atoms or an acyloxy group of from one to seven carbon atoms.

14. (Amended) A method of treatment as claimed in claim 1, [or claim 2] wherein said acetylcholinesterase inhibitor is selected from the group consisting of analogs of galanthamine or lycoramine wherein the methoxy group thereof is replaced by a mono or dialkyl carbamate or carbonate group wherein the alkyl groups contain from 1 to 8 carbon atoms.

18. (Amended) A method of treatment as claimed in claim 1, [or claim 2]
 wherein said acetylcholinesterase inhibitor is selected from the group consisting of analogs of
 galanthamine or lycoramine wherein the methoxy group thereof is replaced by an aryl
 carbamate or carbonate group wherein said aryl group is selected from phenyl, naphthyl,
 substituted phenyl and substituted naphthyl groups wherein said substituent is selected from
 alkyl and alkoxy groups of from 1 to 6 carbon atoms, trifluoromethyl groups and halo groups.

19. (Amended) A method of treatment as claimed in claim 1, [or claim 2]
 wherein said acetylcholinesterase inhibitor is selected from the group consisting of analogs of
 galanthamine and lycoramine wherein the hydroxy group thereof is replaced by an aryl
 carbamate or carbonate group wherein said aryl group is selected from phenyl, naphthyl,
 substituted phenyl and substituted naphthyl groups wherein said substituent is selected from
 alkyl and alkoxy groups of from 1 to 6 carbon atoms, Trifluoro methyl groups and halo
 groups.

20. (Amended) A method of treatment as claimed in claim 1, [or claim 2]
 wherein said acetylcholinesterase inhibitor is selected from the group consisting of
 galanthamine, lycoramine and analogs thereof wherein the hydroxy group of such compounds
 is replaced by a hydrogen or alkoxy group of from one to six carbon atoms or an acyloxy
 group of from one to seven carbon atoms.

21. (Amended) A method of treatment as claimed in claim 1, [or claim 2]
 wherein said acetylcholinesterase inhibitor is galanthamine.

22. (Amended) A method of treatment as claimed in claim 1, [or claim 2]

wherein said acetylcholinesterase inhibitor is rivastigmine.

23. (Amended) A medicine for [treatment] treatment of conditions that can benefit from stimulation of the hypothalamic-pituitary-gonadal axis which comprises an effective amount of an acetylcholinesterase inhibitor having a central effect and a duration of action of from 1 to 100 hours.